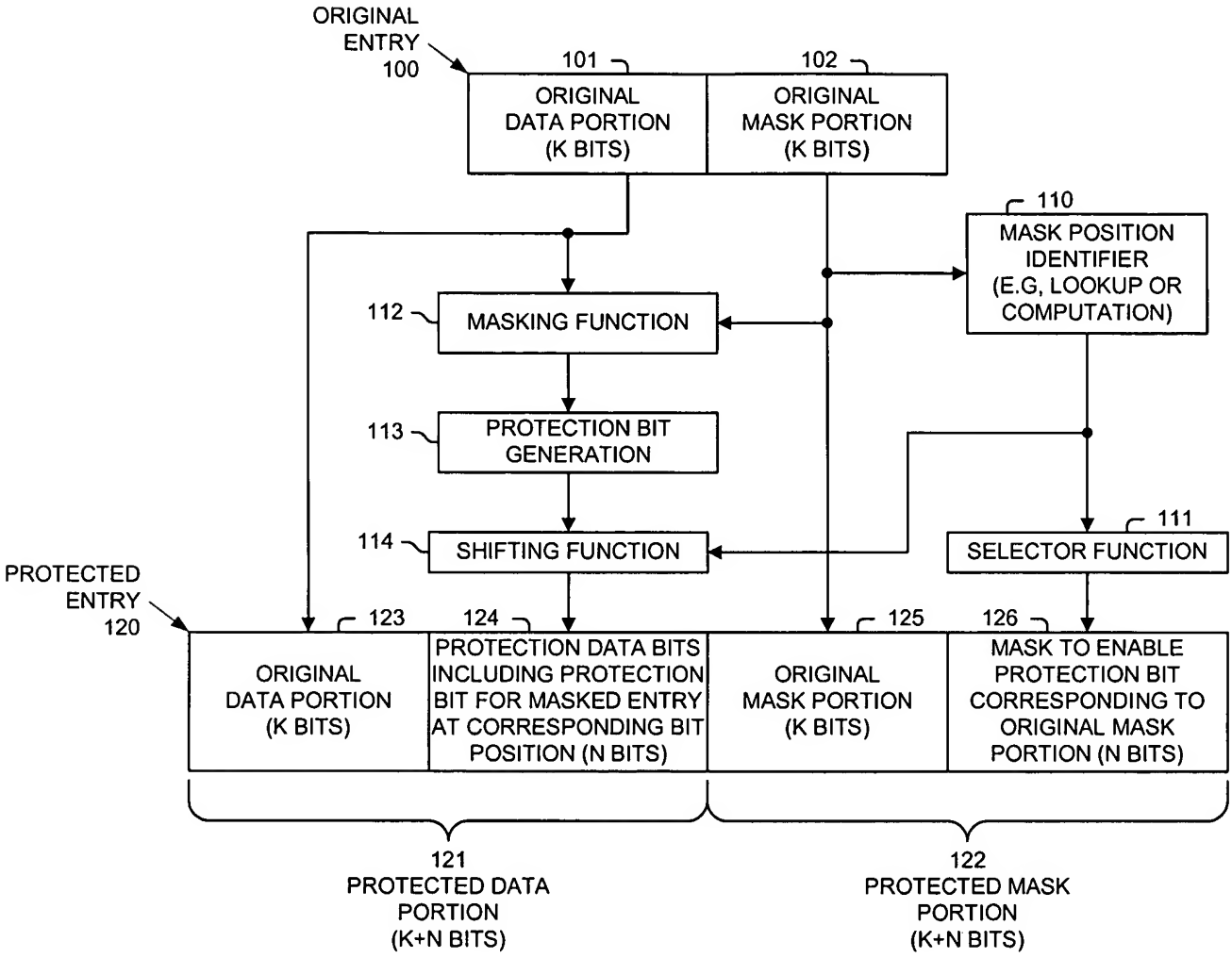
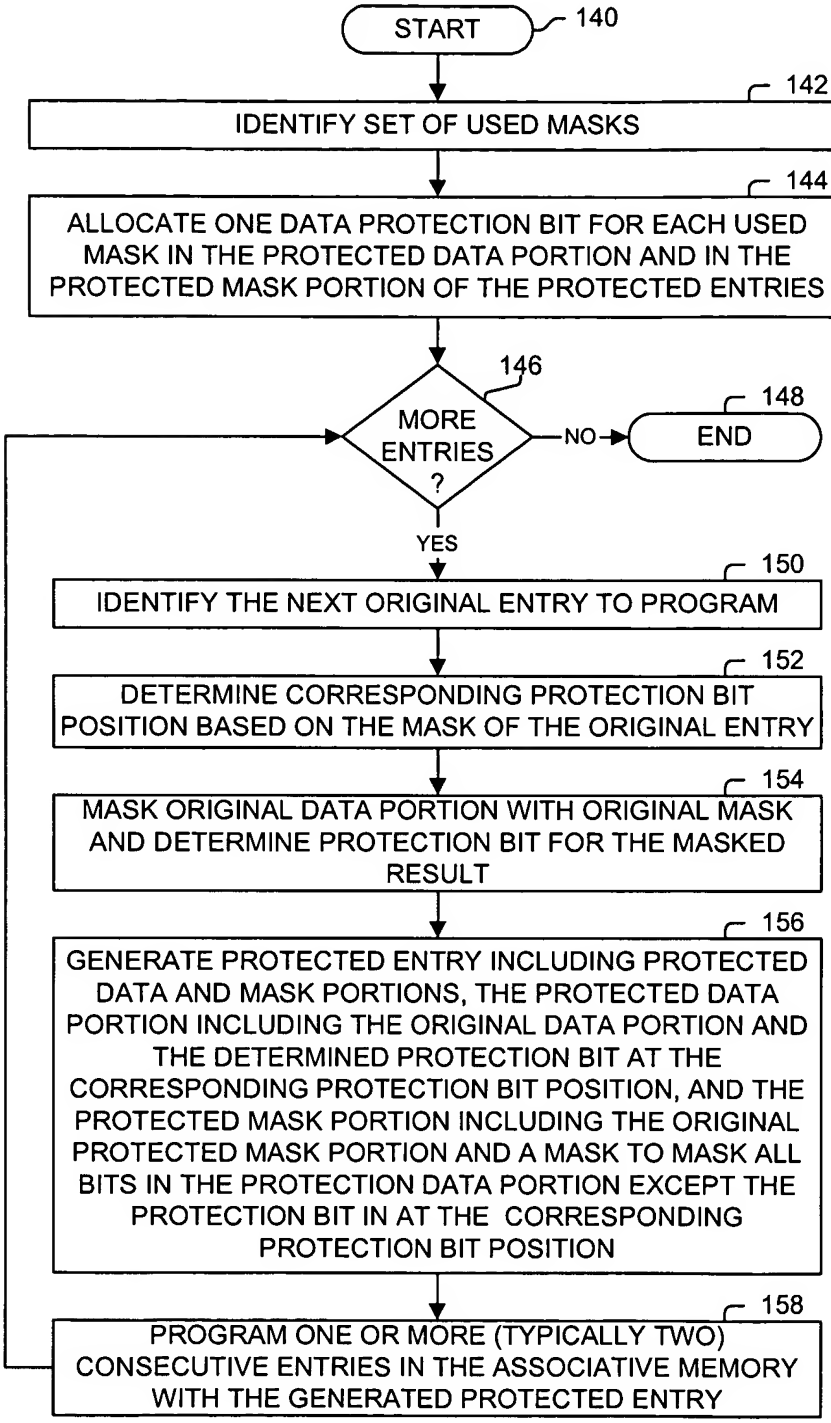
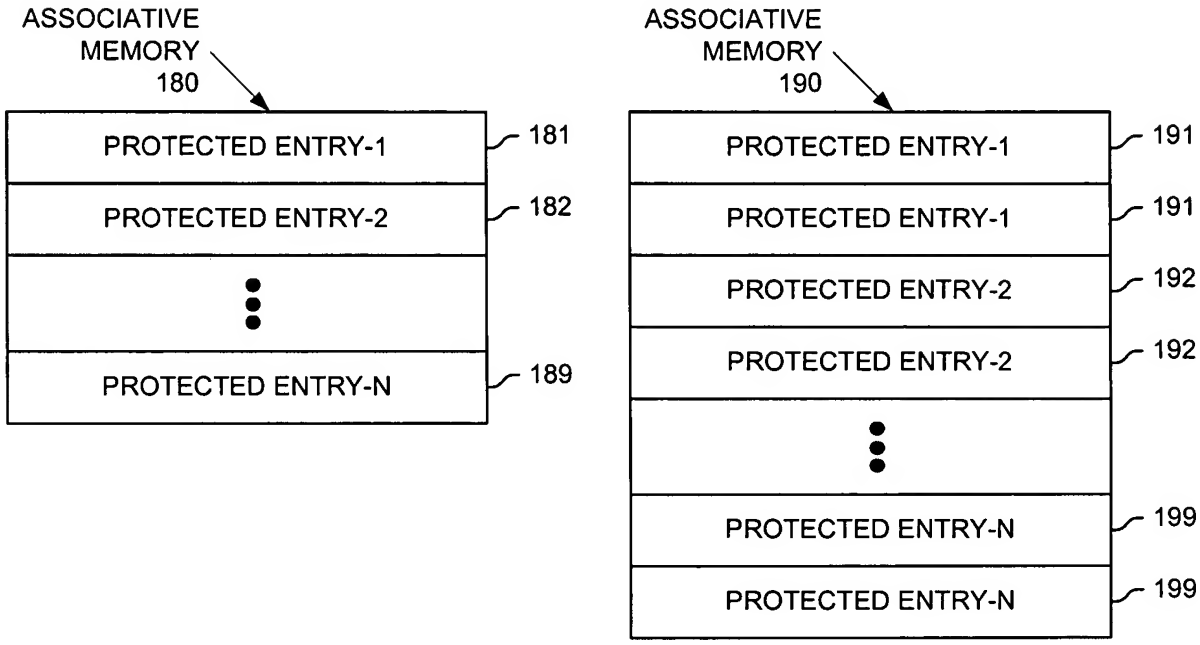


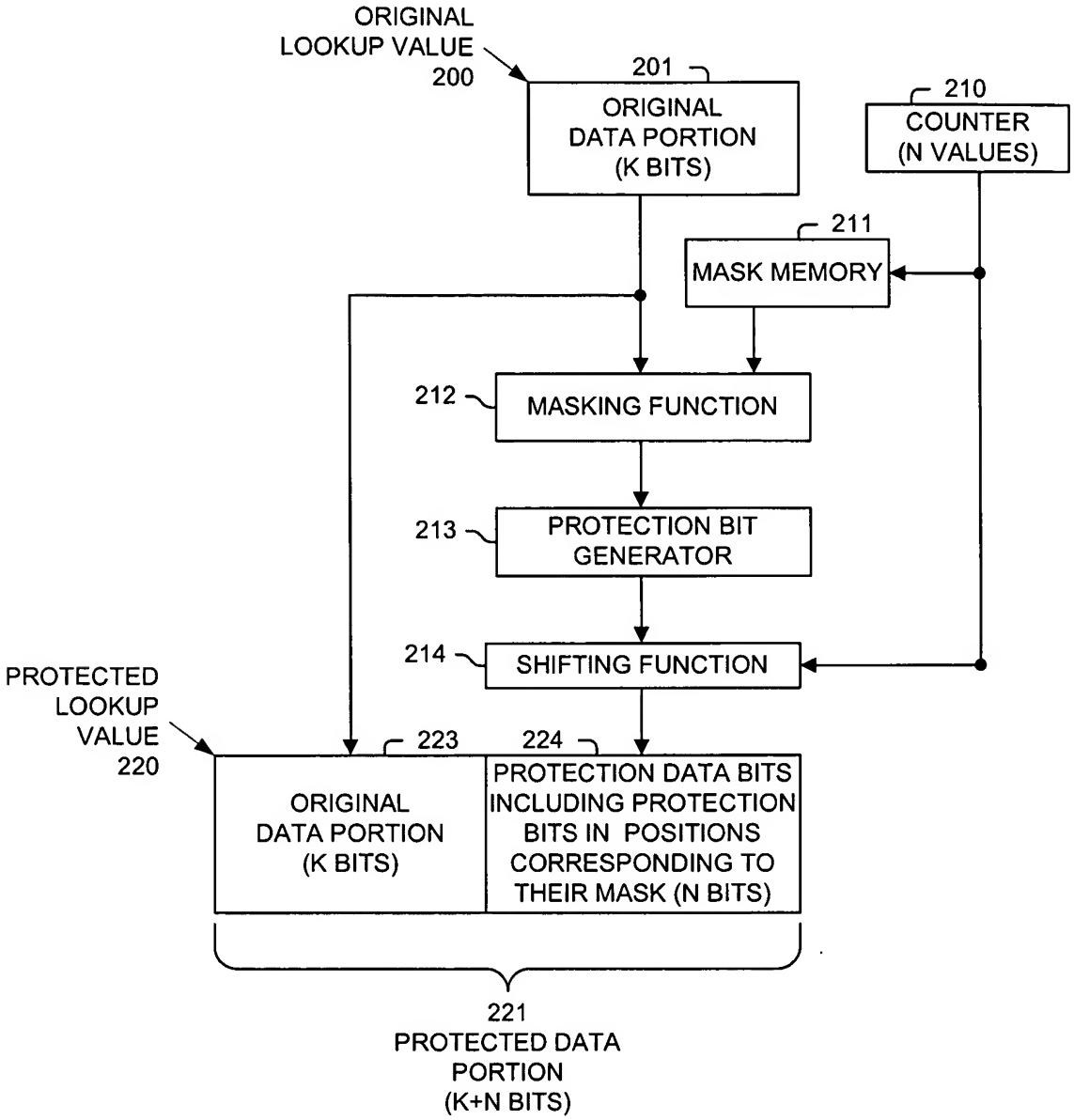
GENERATING PROTECTION ENTRIES
FIGURE 1A



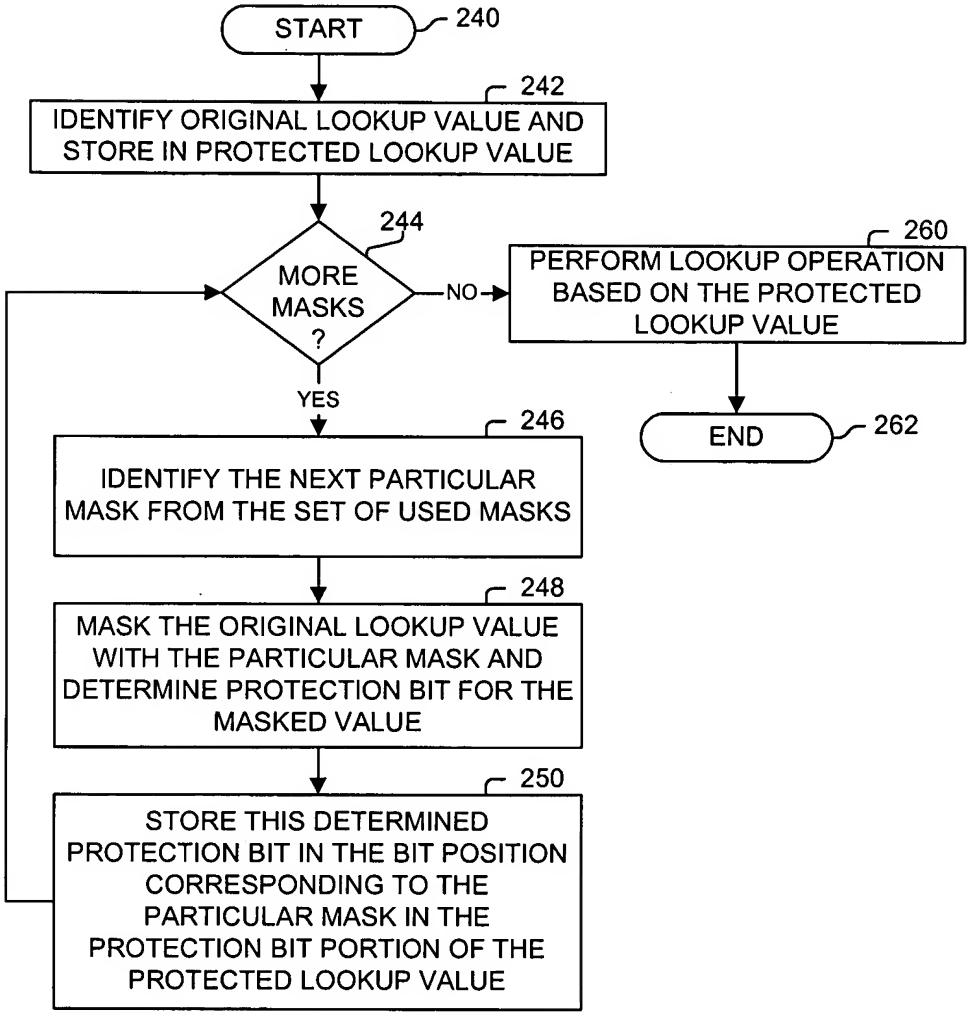
GENERATING PROTECTION ENTRIES
FIGURE 1B



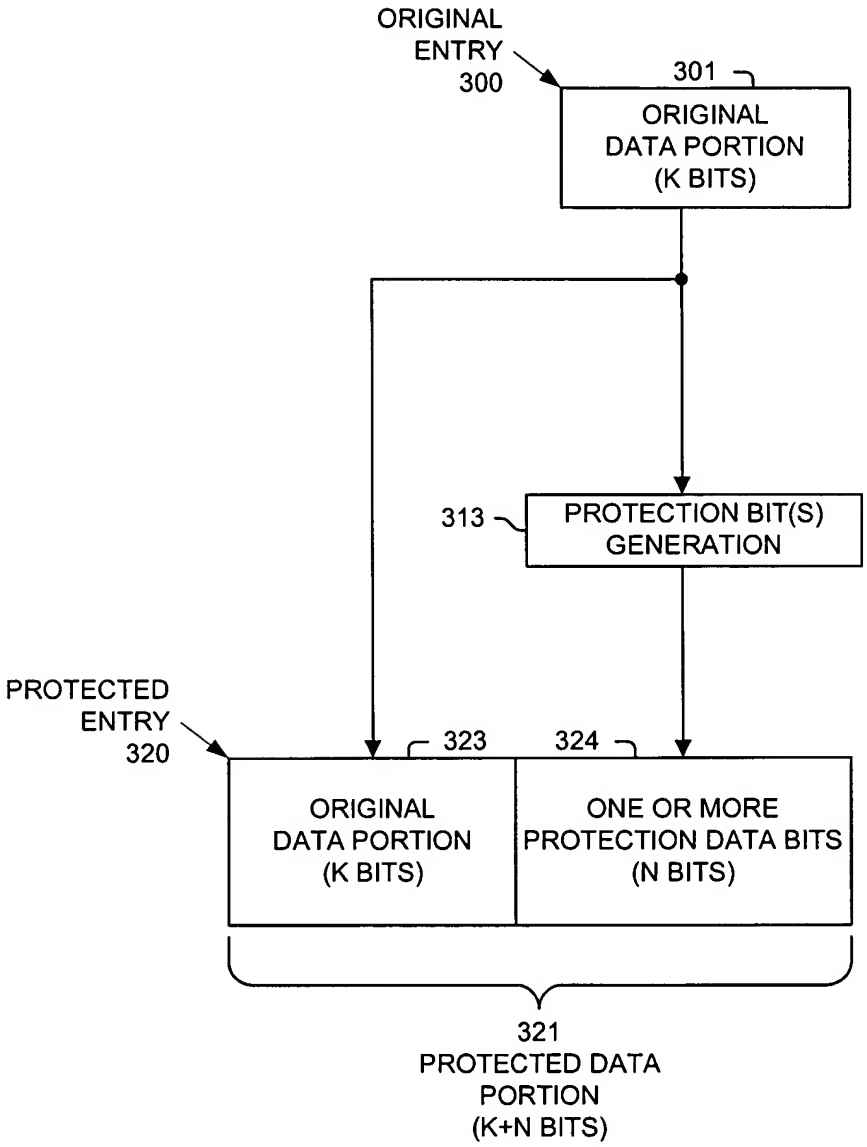
ASSOCIATIVE MEMORIES WITH GENERATED PROTECTION ENTRIES
FIGURE 1C



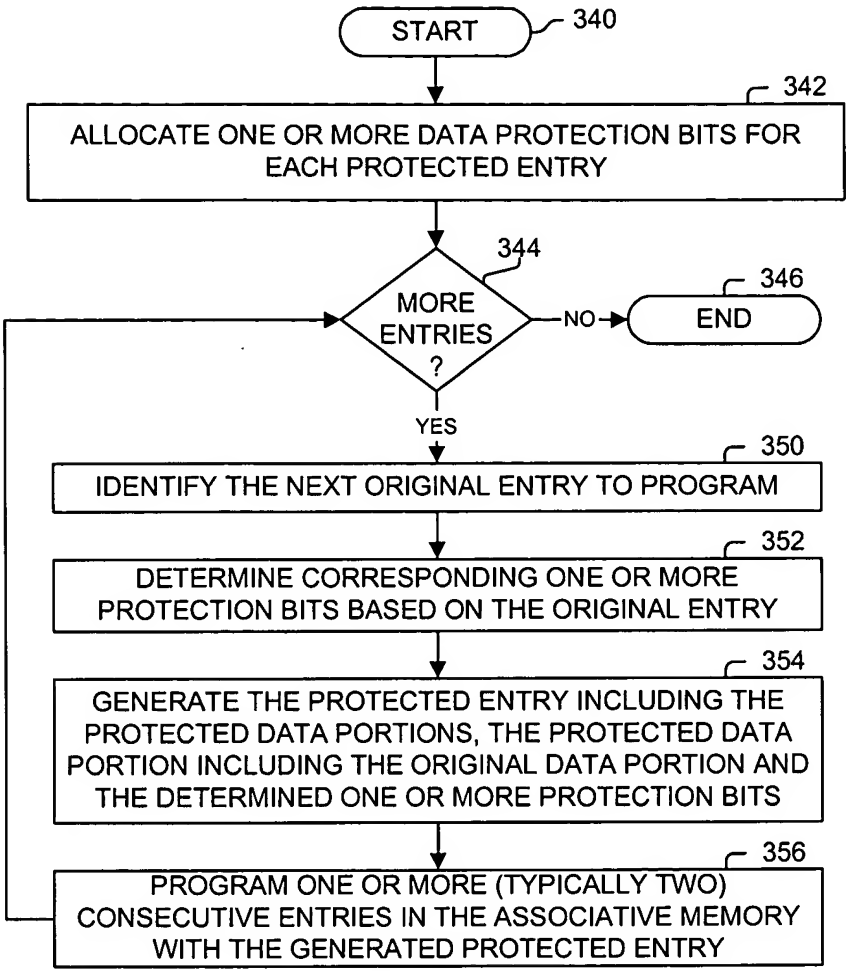
GENERATING A PROTECTED LOOKUP VALUE
FIGURE 2A



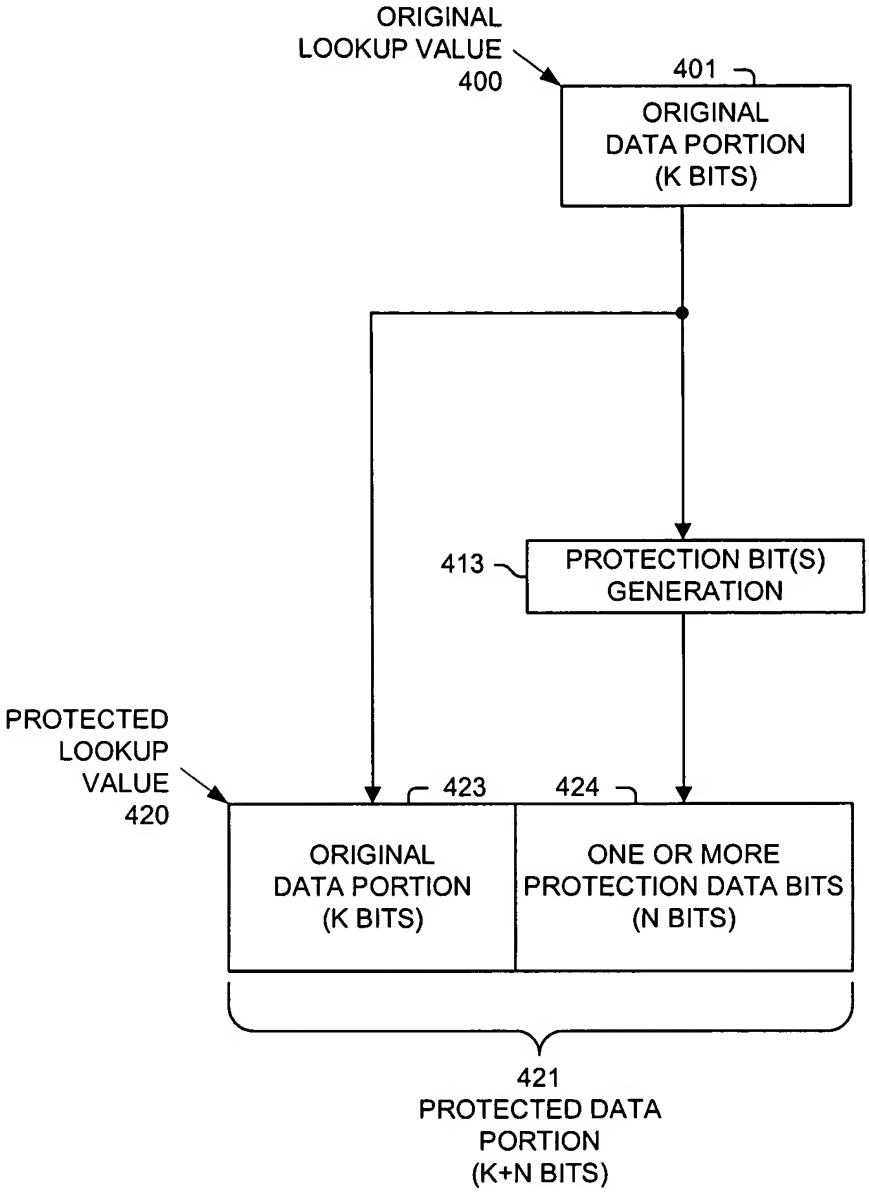
GENERATING A PROTECTED LOOKUP VALUE
FIGURE 2B



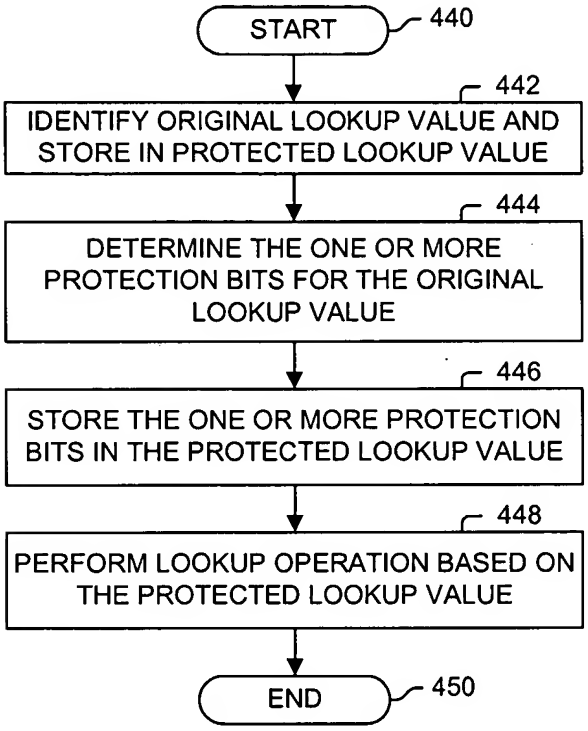
GENERATING PROTECTION ENTRIES
FIGURE 3A



GENERATING PROTECTION ENTRIES
FIGURE 3B



GENERATING A PROTECTED LOOKUP VALUE
FIGURE 4A



GENERATING A PROTECTED LOOKUP VALUE
FIGURE 4B

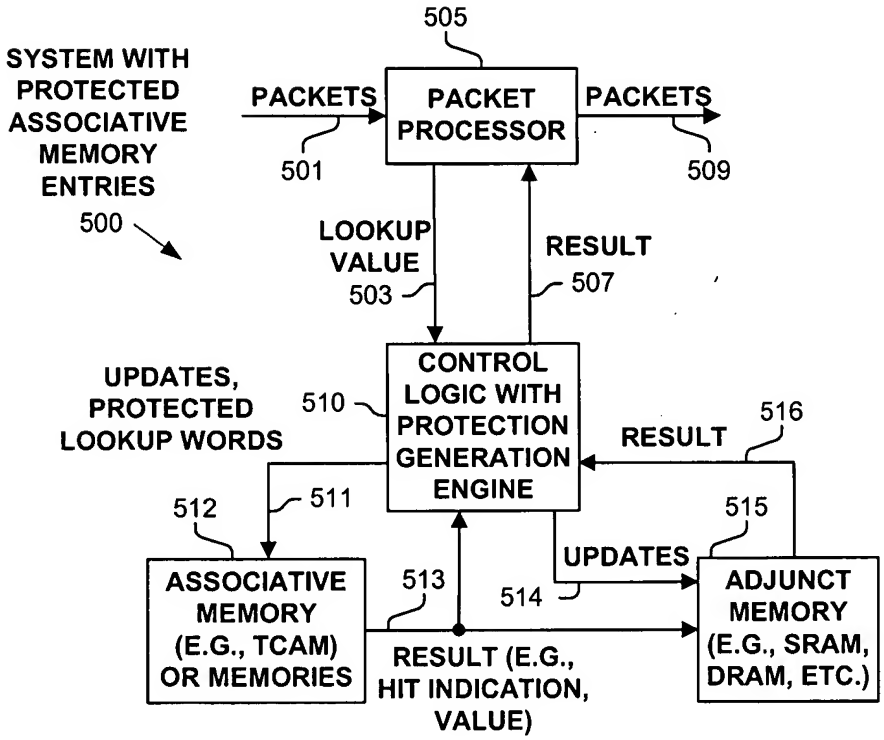

505
SYSTEM WITH PROTECTED ASSOCIATIVE MEMORY ENTRIES
500
PACKETS
501
PACKET PROCESSOR
PACKETS
509
LOOKUP VALUE
503
RESULT
507
UPDATES, PROTECTED LOOKUP WORDS
510
CONTROL LOGIC WITH PROTECTION GENERATION ENGINE
RESULT
516
511
512
515
UPDATES
514
ASSOCIATIVE MEMORY (E.G., TCAM) OR MEMORIES
513
RESULT (E.G., HIT INDICATION, VALUE)
ADJUNCT MEMORY (E.G., SRAM, DRAM, ETC.)

FIGURE 5A

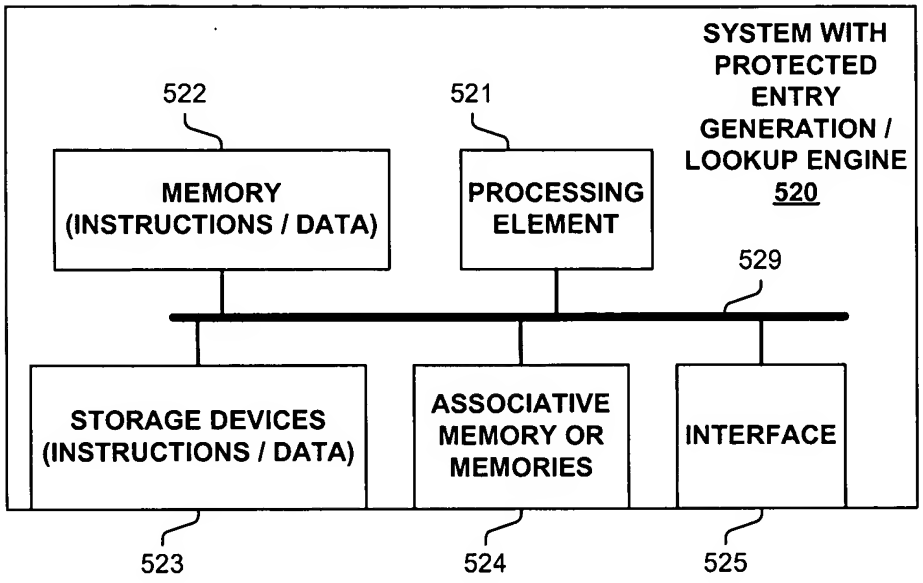

SYSTEM WITH PROTECTED ENTRY GENERATION / LOOKUP ENGINE
520
522
521
MEMORY (INSTRUCTIONS / DATA)
PROCESSING ELEMENT
529
STORAGE DEVICES (INSTRUCTIONS / DATA)
ASSOCIATIVE MEMORY OR MEMORIES
INTERFACE
523
524
525

FIGURE 5B